

**ABSTRACT**

A system and method for monitoring, measuring, and/or usage metering of a vehicle involving tracking continuous movement and position of said vehicle for priced parking spots, priced roads, and/or pay-as-you-drive insurance. The system comprises a vehicle-mounted apparatus  
5 incorporating positioning signal reception, filtering, compression, storage and wireless transmission; while a central processing system collects these position-logs for matching with digital maps and parking, road use, and insurance fee application schedules. Sufficient accuracy and precision enables billing of vehicle owners unambiguously, generating timely congestion and traffic maps, and providing realtime data feeds to signal control and navigation  
10 systems. This invention may be used to meter parking, road use, or insurance, either alone or concurrently in combination.